1	1. A capacitor of the type having a cathode and an anode and an electrolyte
2	disposed between the cathode and the anode, the capacitor comprising
3	an electrochemical cathode comprising an aluminum current collector coated with
4	a finely divided material,
5	an electrolytic anode comprising aluminum coated with aluminum oxide,
6	- an electrolyte in contact-with the finely divided material on the cathode and the
7	aluminum oxide on the anode.
1	2. The capacitor of claim 1 wherein the electrolyte is substantially non-aqueous.
1	3. The capacitor of claim 2 wherein the electrochemical cathode functions by
2	forming a double layer of charge at the interface between the finely divided material and
3	the substantially non-aqueous electrolyte.
1	4. The capacitor of claim 2 wherein the finely divided material comprises carbon
2	particles.
1	5. The capacitor of claim 4 wherein the carbon particles comprise at least one of
2	carbon powder, carbon fibers, and graphite.
1	6. The capacitor of claim 2 wherein the electrochemical cathode functions by the
2	presence of an oxidation reduction reaction within the finely divided material.
1	7. The capacitor of claim 2 wherein the electrochemical cathode comprises a
2	metal oxide coating.
1	8. The capacitor of claim 2 wherein the metal oxide coating is ruthenium oxide.
1	9. The capacitor of claim 2 wherein the metal oxide is hydrous amorphous
2	ruthenium oxide powder adhered to the aluminum current collector.
1	10. The capacitor of claim 2 wherein the cathode further comprises an adhesion
2	layer between the finely divided material and the aluminum.

- 1 11. The capacitor of claim 10 wherein the adhesion layer comprises a carbon 2 rubber coating.
- 1 12. The capacitor of claim 11 wherein the adhesion layer is from 0.5 to 2.0 mil 2 thick.
- 1 13. The capacitor of claim 12 wherein the electrochemical capacitor comprises a 2 metal oxide adhered to the aluminum with the adhesion layer.
- 1 14. The capacitor of claim 13 wherein the metal oxide is hydrous amorphous 2 ruthenium oxide powder.
- 1 15. The capacitor of claim 2 wherein the substantially non-aqueous electrolyte comprises an ethylene glycol solvent.
- 1 16. The capacitor of claim 2 wherein the anode has a larger surface area than the cathode.